

U.S. Serial No. 09/540,319  
Docket No. LFS-093

In the claims:

Please amend Claim 1, as follows:

1. (Amended) A medical diagnostic device for measuring an analyte concentration of an electrically conductive biological fluid, comprising a multilayer structure having a first layer and a second layer sandwiching an intermediate layer,
- a) the first and second layers each comprising an insulating sheet, having a conductive surface adjoining the intermediate layer,
- b) the intermediate layer being an insulating layer with a cutout, having a first end and a second end, which, together with the first and second layers, defines a flow channel to permit the sample to flow from the first end to the second end,
- c) the flow channel comprising
- (i) a dry reagent on the conductive surface of one of the layers for reacting with the sample to yield a change in an electrical parameter that can be related to the analyte concentration of the fluid and
- (ii) an electrochemical cell, within which the electrical parameter is measured,
- d) a first one of the conductive surfaces having a first insulating pattern scored into it to divide the first conductive surface into two regions, insulated from each other, whereby sample that flows across the pattern provides a conductive path from the first end to the second end.